



U.S. Department
of Transportation

Research and
Special Programs
Administration

JUL 27 2000

400 Seventh Street, S.W.
Washington, D.C. 20590

DOT-E 11670
(THIRD REVISION)

EXPIRATION DATE: June 30, 2002

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Oilphase, Division of Schlumberger Evaluation and Production Services (UK) Limited.
(Former Grantee: Oilphase Sampling Services, Ltd)
Dyce, Aberdeen, Scotland, United Kingdom

U.S. Agent: Oilphase Sampling Services, Ltd
Houston, Texas

2. PURPOSE AND LIMITATION:

- a. This exemption authorizes the transportation in commerce of certain flammable gases in a non-DOT specification cylinder used for oil well sampling. This exemption provides no relief from any regulation other than as specifically stated herein.

- b. The safety analyses performed in development of this exemption only considered the hazards and risks associated with transportation in commerce.

3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.

4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 173.302 in that a non-DOT specification cylinder is not authorized except as prescribed herein.

5. BASIS: This exemption is based on the application of Oilphase, Division of Schlumberger Evaluation and Productions Services (UK) Ltd., dated June 28, 2000, submitted in accordance with § 107.109.

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6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Hazardous materials description -- proper shipping name	Hazard Class/ Division	Identi- fication Number	Packing Group
Hydrocarbon Gases Mixtures, Compressed, n.o.s.	2.1	UN1964	N/A
Hydrocarbon Gases Mixtures, Liquified, n.o.s.	2.1	UN1965	N/A

7. PACKAGING AND SAFETY CONTROL MEASURES:

- a. PACKAGING - Packaging prescribed is a non-DOT specification oil well sampling cylinder, threaded at one end, with a design pressure of 15,000 psig. Each cylinder must comply with the design calculations, drawings, material specifications, and engineering specifications submitted with Oilphase's application for exemption on file with the Office of Hazardous Materials Exemptions and Approvals (OHMEA). In addition, each cylinder must conform with DOT 3A specification (§ 178.36) except as follows:

§ 178.36(b) Steel

Armco 17-4PH stainless steel double heat treated at 1150°F and conforming with Oilphase's Manufacturing Specifications MS 001 and MS 003 on file with OHMEA. Material must meet the requirements of the National Association of Corrosion Engineers (NACE) Specification MR-01-75 for suitability in hydrogen sulfide (H₂S) service.

§ 178.36(g) Heat treatment

No heat treatment required for the completed cylinder.

§ 178.35(e) Safety devices

No pressure relief device is required on the completed cylinder. Cylinder must be equipped with elastomeric seals that relieve pressure when subjected to a pool fire. The start to discharge pressure must not exceed the hydrostatic test pressure.

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§ 178.36(l) Acceptable results for physical tests

Minimum Tensile strength:	135,000 psi
Minimum Yield strength:	105,000 psi
Elongation:	16% on 1 inch gauge specimen

§ 178.35(f) Marking

Applies except that cylinders must be marked "DOT-E 11670" in lieu of DOT specification marking.

- b. TESTING - Each cylinder must be reinspected and hydrostatically retested in accordance with 49 CFR 173.34 as prescribed for DOT 3A specification cylinders. Reheat treatment or repair of rejected cylinders is not permitted.

c. OPERATIONAL CONTROLS -

(1) Each cylinder must be packed in the transportation box as specified in the application for exemption on file with the OHMEA.

(2) Emergency response information provided with the shipment and available via an emergency response telephone number must indicate that the receptacles are not fitted with pressure relief devices and provide appropriate guidance in case receptacles are exposed to fire.

8. SPECIAL PROVISIONS:

a. A person who is not a holder of this exemption who receives a package covered by this exemption may reoffer it for transportation provided no modifications or changes are made to the package and it is reoffered for transportation in conformance with this exemption and the HMR.

b. A current copy of this exemption must be maintained at each facility where the package is offered or reoffered for transportation.

c. The cylinders are authorized for oil well sampling service only.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo vessel, and cargo only aircraft.

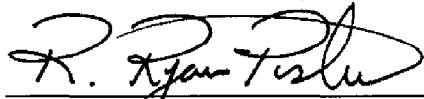
10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each cargo vessel or aircraft used to transport packages covered by this exemption. The shipper must furnish a copy of this exemption to the air carrier before or at the time the shipment is tendered.
11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:
- o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
 - o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this exemption, including display of its number, when the exemption has expired or is otherwise no longer in effect.

12. REPORTING REQUIREMENTS: The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (Sections 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must inform the AAHMS, in writing, of any incidents involving the package and shipments made under the terms of this exemption.

Issued at Washington, D.C.:



for Robert A. McGuire
Acting Associate Administrator
for Hazardous Materials Safety

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Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, Department of Transportation, Washington, D.C. 20590.
Attention: DHM-31.

The original of this exemption is on file at the above office. Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

PO: AM